CCORP Data Specifications for STS Vendors

Version 1.2

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- CCORP Data Elements Adopted by the CABG Clinical Advisory Panel
 The program's Clinical Advisory Panel, as required by statute, adopted 51 data
 elements to be collected to produce risk-adjusted outcome reports. The field
 titles and their values are indicated on these 2-pages, as well as whether each is
 a STS, modified STS, or non-STS data element.
- 2. CCORP Data Element Specifications (Non-STS and Modified STS)

 This section lists the non-STS and modified STS data elements, including their field title, name, value, format, length, and definition. Data element definitions/ response categories for some 'STS' data elements may differ from V. 2.41 data specifications found on the National STS website and we recommend you use the response categories identified in this document. Data elements with parent child relationships or numeric data ranges may include soft or hard edits that have been incorporated in our CCORP data tool (currently in beta) and our data quality reports (DQRs) that will be routinely sent to hospitals. For STS data elements, the field name will match STS, but CCORP's name will be in parenthesis if the names vary drastically.
- 3. CCORP Data Fields Export Order for Submissions to OSHPD

 This document lists the order in which the data elements must appear in the report submitted to CCORP. This order is required and specified in the CCORP regulations.
- 4. Value Conversions for Data Elements with Parent-Child Relationships
 This document describes, for 4 data elements with parent-child relationships, the values that should be substituted for blank or missing values when exporting data to CCORP. Blank or missing data will always be interpreted as the "lowest risk" value (No, 0, None, etc., depending on the data element) so hospitals should minimize the amount of missing data values reported.
- 5. Surgeon Certification of Data (revised)
 The CCORP regulations require that each surgeon certify the data reported for his or her cases in a submitted report. Certifications must accompany the scheduled data submissions. This document explains the certification process and describes the surgeon summary reports that the CCORP tool will produce to facilitate the certification process. It also includes a copy of the preliminary certification document. We hope STS vendors will produce a similar report for their clients.

1. CCORP Data Elements

California CABG Outcomes Reporting Program (CCORP): Data Elements Adopted by the CABG Clinical Advisory Panel, 5/7/02

IDENTIFICATION AND CLASSIFICATION			
Facility Identification Number	STS		
	(Modified)		
Isolated CABG: Yes; No	Non-STS		
Responsible Surgeon Name (3 separate fields): Surgeon Last Name; Surgeon First	STS		
Name; Surgeon Middle Initial	(Modified)		
Responsible Surgeon CA License Number			
Medical Record Number	STS		
Date of Birth: mm/dd/yyyy	STS		
Date of Surgery: mm/dd/yyyy	STS		
Date of Discharge: mm/dd/yyyy	STS		
Discharge Status: Alive; Dead	STS		
Date of Death: mm/dd/yyyy	STS		
RISK FACTOR: DEMOGRAPHIC			
Race: Caucasian; Black; Hispanic; Asian; Native American; Other	STS		
Gender: Male; Female	STS		
Patient Age: Calculated	STS		
Height (cm)	STS		
Weight (kg)	STS		
RISK FACTOR: OPERATIVE			
Status of the Procedure: Emergent/Salvage; Emergent; Urgent; Elective	STS		
RISK FACTOR: COMORBIDITY/OTHER			
Last Creatinine Level Preop (mg/dl)	STS		
Dialysis: Yes; No	STS		
Diabetes: Yes; No	STS		
Peripheral Vascular Disease: Yes; No	STS		
Cerebrovascular Disease: Yes; No	STS		
Cerebrovascular Accident: Yes; No	STS		
Cerebrovascular Accident Timing: <=2 weeks; >2 weeks	STS		
Chronic Lung Disease: No; Mild; Moderate; Severe	STS		
Hypertension: Yes; No	STS		
Immunosuppressive Treatment: Yes; No	STS		
Hepatic Failure: Yes; No	Non-STS		
RISK FACTOR: CARDIAC			
Arrhythmia: Yes; No	STS		
Arrhythmia Type: Sustained VT/VF; Heart Block; Afib/flutter	STS		
Myocardial Infarction: Yes; No	STS		
Myocardial Infarction Timing: <=6 hours; >6 hours but <24 hours; 1 to 7 days; 8 to 21	STS		
days; >21 days			
Cardiogenic Shock: Yes; No	STS		
Angina: Yes; No	STS		
Angina Type: stable; unstable	STS		
CCS Classification: No Angina = Class 0; Class I; Class II; Class IV	STS STS		
Congestive Heart Failure: Yes; No			
NYHA Classification: Class I; Class II; Class IV	STS		

RISK FACTOR: PREVIOUS INTERVENTIONS		
Number of Prior Cardiac Operations Requiring Cardiopulmonary Bypass	STS	
Number of Prior Cardiac Operations Without Cardiopulmonary Bypass	STS	
Prior PCI: Yes; No	STS	
	(Modified)	
Interval from Prior PCI to Surgery: <=6 hours; > 6 hours	STS	
	(Modified)	
RISK FACTOR: HEMODYNAMIC STATUS		
Ejection Fraction (%)	STS	
Ejection Fraction Method: LV Gram; Radionuclide; Estimate; ECHO	STS	
Left Main Disease (% Stenosis)	STS	
	(Modified)	
Number of Diseased Coronary Vessels: None; One; Two; Three	STS	
Mitral Insufficiency: None; Trivial; Mild; Moderate; Severe	STS	
PROCESS OF CARE		
Internal Mammary Artery(ies) Used as Grafts: Left IMA; Right IMA; Both IMAs; No IMA	STS	
Cardiopulmonary Bypass Used: Yes; No	STS	
Conversion to Cardiopulmonary Bypass: Yes; No	STS	
Primary Incision Full Sternotomy; Partial Sternotomy; Transverse Sternotomy; Right	STS	
Vertical Parasternal; Left Vertical Parasternal; Right Anterior Thoracotomy; Left Anterior		
Thoracotomy; Posterolateral Thoracotomy; Xiphoid; Epigastric; Subcostal		
Cardioplegia: Yes; No	STS	

2. CCORP Data Element Specifications for STS Vendors

Data Value Requirements, Non-STS and Modified STS Data Elements and CCORP Soft Data Edits¹

Data Value Requirements

A valid value must be submitted for the following data elements (i.e., missing or blank data are not allowed):

- Facility Identification Number
- Medical Record Number
- Responsible Surgeon Name
- Responsible Surgeon California License Number
- Isolated CABG
- Date of Surgery
- Date of Discharge
- Discharge Status

If a value for a data element NOT listed above is unknown, not applicable, or otherwise missing, a hospital may submit the record without a value. However, CCORP may ask a hospital to provide data to replace missing values after a hospital report has been accepted by CCORP.

NON-STS DATA ELEMENTS

Please note that the value specifications for these data elements are fixed and no "recoding" of values (e.g. changing 'Yes' to '1') will be allowed. For STS data elements, coding in conformance with STS is allowed.

1. Field Title: Isolated CABG

Field Name: isocabg Values/Order: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Definition: When any of the procedures listed in Section A is performed concurrently with the coronary artery bypass surgery, the surgery will be considered non-isolated and the data element coded 'No'. It is not possible to list all procedures because cases can be complex and clinical definitions are not always precise. When in doubt, the data abstractor should first seek an opinion from the responsible surgeon and then consult CCORP.

¹ Soft edits are range checks and relational data checks used to prompt the user when unusual values are entered in the CCORP data collection tool. They are 'soft' because they allow users to continue data entry without changing the value(s) that brings up the warning flag. These are many of the same data checks used to produce the data quality reports (DQRs) sent to hospitals in which OSHPD requests corrections. **Many requests for corrections by OSHPD can be avoided by use of these soft edits**. Our experience with corrected data indicates that in most, but not all cases, soft edits are violated because of data entry errors. For example, in the case of *Dialysis=Yes but creatinine >6.0*, 19 out of 21 (90%) reported errors for the 1999 data period were in fact data entry errors that were later corrected by hospital staff. STS software vendors do not already incorporate such soft edits in their data harvesting tools. Incorporation of these soft data edits will reduce the number of requests for data corrections from OSHPD.

Section A

- Valve repairs or replacements
- Operations on structures adjacent to heart valves (papillary muscle, chordae tendineae, traebeculae carneae cordis, annuloplasty, infundibulectomy)
- Ventriculectomy
- Repair of atrial and ventricular septa, excluding closure of patent foramen ovale
- Excision of aneurysm of heart
- Head and neck, intracranial endarterectomy
- Other open heart surgeries, such as aortic arch repair, pulmonary endarterectomy
- Endarterectomy of aorta
- Thoracic endarterectomy (endarterectomy on an artery outside the heart)
- Heart transplantation
- Repair of certain congenital cardiac anomalies, excluding closure of patent foramen ovale (e.g., tetralology of fallot, atrial septal defect (ASD), ventricular septal defect (VSD), valvular abnormality)
- Implantation of cardiomyostimulation system (Note: Refers to cardiomyoplasty systems only, not other heart-assist systems such as pacemakers or internal cardiac defibrillators (ICDs))
- Any aortic aneurysm repair (abdominal or thoracic)
- Aorta-subclavian-carotid bypass
- Aorta-renal bypass
- Aorta-iliac-femoral bypass
- Caval-pulmonary artery anastomosis
- Extracranial-intracranial (EC-IC) vascular bypass
- Coronary artery fistula
- Maze procedures, surgical or catheter
- Resection of a portion of the lung. (e.g., excision of an emphysematous bleb, lobectomy or segmental resection of lung). Does not include simple biopsy of lung nodule in which surrounding lung is not resected or biopsy of a thoracic lymph node.
- Mastectomy for breast cancer (not simple breast biopsy)

If a procedure listed in Section B is performed concurrently with the coronary artery bypass surgery, the surgery will be considered an isolated CABG and the data element coded 'Yes', unless a procedure listed in Section A is performed during the same surgery. These particular procedures are listed because the Office has received frequent questions regarding their coding.

Section B

- Transmyocardial laser revascularization (TMR)
- Pericardiectomy and excision of lesions of heart
- Repair/restoration of the heart or pericardium
- Coronary endarterectomy
- Pacemakers
- Internal cardiac defibrillators (ICDs)
- Fem-fem cardiopulmonary bypass (a form of cardiopulmonary bypass that should not be confused with aortofemoral bypass surgery listed in Section A)

2. Field Title: Responsible Surgeon California License Number

Field Name: surglicnum Values/Order: Not Defined Data Type/Format: Text

Field Length: 10

Definition: California Physician License Number of responsible surgeon, assigned

by the Medical Board of California of the Department of Consumer Affairs.

 Field Title: Hepatic Failure Field Name: hepafail Values/Order: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Definition: The patient has cirrhosis, hepatic failure, acute hepatitis or "shock liver" and has a bilirubin greater than 2mg/dl and a serum albumin less than 3.5 grams/dl.

MODIFIED STS DATA ELEMENTS

1. Field Title: Facility Identification Number

Field Name: hospitalid Values/Order: Not Defined Data Type/Format: Text

Field Length: 6

Definition: The six-digit facility identification number assigned by the Office of

Statewide Health Planning and Development

2. Field Title: Responsible Surgeon Name

Field Name: SurgLname; SurgFname; SurgMI

Values/Order: Not Defined

Data Type/Format: Text; Uppercase

Field Length: Last= 25, First= 20, MI= 1 (3 separate fields)

Definition: Responsible surgeon is the principal surgeon who performs the coronary artery bypass procedure. If a trainee performs this procedure, then the responsible surgeon is the physician responsible for supervising this procedure performed by the trainee. In situations in which the responsible surgeon cannot otherwise be determined, the responsible surgeon is the surgeon who bills for the coronary artery bypass procedure. (**Note: Commas are not allowed in any of these fields**)

3. Field Title: Left Main Disease (% stenosis)

Field Name: Imstenpct

Values/Order:

Hard Edits (CCORP): Left Main Disease cannot be <0 or >100

Data Type/Format: Integer

Field Length: 3

Definition: Percentage of compromise of vessel diameter in any angiographic view.

4. Field Name: Prior PCI Short Name: PCI Valid Values: Yes: No

Data Type/Format: Text; Yes/No

Field Length: 3

Soft Edits (CCORP): Prior PCI including Balloon and/or Atherectomy and/or Stent Indicated but No Interval from prior PTCA/Atherectomy/Stent to Surgery Given **Source code to detect odd values:** PCI = 'Yes' and PCIIntv = 'Missing'; **Definition**: Percutaneous coronary intervention (PCI) was done at any time prior to this surgical procedure (which may include during the current admission). PCI includes percutaneous transluminal coronary angioplasty (PTCA), intracoronary fibrinolysis without PTCA, laser recanalization, stent implantation, rheolysis with angiojet, brachytherapy, and other catheter-based percutaneous recanalization techniques.

5. Field Name: Prior PCI Interval

Short Name: PCIIntv

Valid Values: <= 6 hours; > 6 hours

Data Type/Format: Text

Field Length: 10

Soft Edits (CCORP): No Prior PCI including Balloon and/or Atherectomy and/or

Stent Indicated but Interval from Prior PCI to Surgery Given

Source code to detect odd values: PCI = 'No' or PCI = 'Missing' and PCIIntv = '<=

6 hours' or PCIIntv = '> 6 hours';

Definition: The time between prior percutaneous coronary intervention (PCI) and surgical repair of coronary occlusion:

- <= 6 hours
- > 6 hours

CCORP SOFT EDITS FOR INCORPORATED STS DATA ELEMENTS (VERSION 2.41)

1. Field Name: Mort-Date Short Name: MtDate

Field Title2: Status (Alive/Dead) at discharge from hospital of surgery

Field Title2: Mort-DC Status Short Name2: MtDCStat

Soft Edits (CCORP): No Mortality – Date given, but Discharge Status entered as

'Dead'.

Source Code to detect odd values:

Where MtDate is blank or missing and MtDCStat = 'DEAD'

2. Field Name: Patient Age

Short Name: Age

Soft Edits (CCORP): Expected Patient Age is between 18 and 95 years.

Source Code to detect out of range values:

Where Age < 18 and Age > 95

3. Field Name: Height (cm) Short Name: HeightCm

Soft Edits (CCORP): (Male) Height outside expected 135 – 204 cm range.

(Female) Height outside expected 135 – 191 cm range.

Source code to detect odd values:

Where (HeightCm > 191 and Gender = 'Female')

or (HeightCm > 204 and Gender = 'Male')

or (HeightCm < 135 and Gender = either 'Female' or 'Male'))

4. Field Name: Weight (kg)

Short Name: WeightKg

Soft Edits (CCORP): (Male) Weight outside expected 40 – 182 kg range.

(Female) Weight outside expected 35 – 182 kg range.

Source code to detect out of range values:

Where ((WeightKg < 35 and Gender = 'Female') or

(WeightKg < 40 and Gender = 'Male') or

(WeightKg > 182 and Gender = either 'Female' or 'Male'))

5. Field Name: RF-Last Creat Lvl

Short Name: CreatLst

Soft Edits (CCORP): Creatinine outside expected 0.4 to 14.9 mg/dl range.

Source code to detect odd values:

Where (CreatLst \geq 15 or (CreatLst > 0.1 and CreatLst < 0.40))

6. Field Name: RF-Renal Fail-Dialysis

Short Name: Dialysis

Soft Edits (CCORP): When creatinine level >6 mg/dl, dialysis generally coded Yes.

Source code to detect odd values:

Where CreatLst > 6 and Dialysis = "No" or Dialysis = "Missing"

7. Field Name: RF-CVA Short Name: CVA Valid Values: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Soft Edits (CCORP): Cerebrovascular Accident Indicated, but No Cerebrovascular Accident Timing Given

Source code to detect odd values: Where cva = 'Yes' and (cvawhen = 'No' or cvawhen = 'Missing')

Definition: Has a history, at any time prior to surgery, of a central neurologic deficit persisting more than 72 hours. (i.e. extremity weakness or loss of motion, loss of consciousness, loss of speech, field cuts). Chart documentation of a prior diagnosis of CVA or stroke is sufficient.

8. Field Name: RF-CVA-When **Short Name**: CVAWhen

Valid Values: <=2 weeks; >2 weeks

Data Type/Format: Text

Field Length: 9

Soft Edits (CCORP): No Cerebrovascular Accident Indicated, but Cerebrovascular

Accident Timing Given

Source code to detect odd values: Where (cva = 'No' or cva = 'Missing') and cva

when = '<=2 weeks' or cvawhen = '>2 weeks'

Definition: Events occurring within two weeks of the surgical procedure are considered recent (<=2 weeks); all others are considered remote (>2 weeks).

Field Name: Arrhythmia
 Short Name: Arrhyth
 Valid Values: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Soft Edits (CCORP): Arrhythmia Indicated but No Arrhythmia Type Given **Source code to detect odd values:** Arrhyth = 'Yes' and (ArrhyTyp = 'No' or ArrhyTyp = 'Missing')

Definition: A preoperative arrhythmia present within two weeks of the procedure, by clinical documentation of any one of the following:

- Atrial fibrillation/flutter requiring medication.
- Heart block.
- Sustained Ventricular Tachycardia or Ventricular Fibrillation requiring cardioversion and/or intravenous amiodarone.

10. Field Name: Arrhythmia Type

Short Name: ArrhyTyp

Valid Values: Sust VT/VF; Heart Block; Afib/Flutter

Data Type/Format: Text

Field Length: 12

Soft Edits (CCORP): No Arrhythmia Indicated but Arrhythmia Type Given **Source code to detect odd values:** Arrhyth = 'No' or Arrhyth = 'Missing' and ArrhyTyp = 'Sust VT/VF' or ArrhyTyp = 'Heart Block' or ArrhyTyp = 'Afib/Flutter' **Definition**: The type of arrhythmia present within two weeks of the procedure is:

- Sustained Ventricular Tachycardia or Ventricular Fibrillation requiring cardioversion and/or intravenous amiodarone.
- Heart Block.
- Atrial fibrillation/flutter requiring medication.

11.Field Name: MI Short Name: MI Valid Values: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Soft Edits (CCORP): Myocardial Infarction Indicated but No Myocardial Infarction

Timing Given

Source code to detect odd values: MI = 'Yes' and (MIWhen = 'No' or MIWhen =

'Missing');

Definition: Refers to any myocardial infarction (MI) in the past. For MIs prior to the current hospitalization for which detailed records are not available, chart documentation in which a clinician caring for the patient diagnosed an MI is sufficient. For MIs during the current hospitalization for which detailed records are available, conditions A and B below must all be met:

- A) The patient must have been diagnosed with a myocardial infarction (ST elevation or non ST elevation) by a clinician caring for patient.
- B) At least 1 of the 3 following biochemical indicators for detecting myocardial necrosis must be present:
 - 1) Troponin T or I:
 - a. Maximal concentration of troponin T or I exceeding the MI diagnostic limit (99th percentile of the values for a reference control group, as defined in section C) on at least one occasion during the first 24 hours after the index clinical event.
 - 2) CK-MB:
 - a. Maximal value of CK-MB more than two times the upper limit of normal on at least one occasion during the first 24 hours after the index clinical event.
 - b. Maximal value of CK-MB, preferable CK-MB mass, exceeding 99th percentile of the values for a reference control group, as defined in section C, on two successive samples during the first 24 hours after the index clinical event.
 - 3) Total CK:
 - a. In the absence of availability of a troponin or CK-MB assay, total CK more than two times the upper limit of normal (99th percentile of the values for a reference control group, as defined in section C), or the B fraction of CK may be employed, but these last two biomarkers are considerably less satisfactory than CK-MB.
- C) Reference control values (MI diagnostic limit and upper limit of normal):
 - 1) Reference values must be determined in each laboratory by studies using specific assays with appropriate quality control, as reported in peer-reviewed journals. Acceptable imprecision (coefficient of variation) at the 99th percentile for each assay should be defined as less than or equal to 10 percent. Each individual laboratory should confirm the range of reference values in their specific setting.

12. Field Name: MI-When **Short Name**: MIWhen

Valid Values: <=6 hours; 7-23 hours; 1-7 days; 8-21days; >21 days.

Data Type/Format: Text

Field Length: 10

Soft Edits (CCORP): No Myocardial Infarction Indicated but Myocardial Infarction

Timing Given

Source code to detect odd values: (MI = 'No' or MI = 'Missing') and MIWhen = '<=6 hours' or MIWhen = '7-23 hours' or MIWhen = '1-7 days' or MIWhen = '8-21days' or MIWhen = '>21 days'

Definition: Time period between the last documented myocardial infarction and the CABG surgery.

13. Field Name: Angina Short Name: Angina Valid Values: Yes; No

Data Type/Format: Text; Yes/No

Field Length: 3

Soft Edits (CCORP): Angina Indicated but No Angina Type Given

Source code to detect odd values: Angina = 'Yes' and (AngType = 'No' or

AngType = 'Missing')

Definition: The patient has ever had angina pectoris.

14. Field Name: Angina-Type **Short Name**: AngType

Valid Values: Stable; Unstable

Data Type/Format: Text

Field Length: 8

Soft Edits (CCORP): No Angina Indicated but Angina Type Given

Source code to detect odd values: (angina = 'No' or angina = 'Missing') and

AngType = 'Stable' or AngType = 'Unstable'

Definition The type of angina present within 24 hours prior to CABG surgery is:

- Stable: Angina not meeting unstable criteria below.
- Unstable: Requires continuous hospitalization from the episode until surgery and one of the following:
 - 1. Angina at rest.
 - 2. New onset angina in past 2 months of at least Canadian Cardiovascular Society (CCS) Class III.
 - 3. Increasing angina in past 2 months angina that has become more frequent, longer in duration, or lower in threshold; and increased by greater than or equal to 1 CCS class to at least CCS Class III severity.

15. Field Name: Prior Card Op Req Bypass-#

Short Name: PrCBNum

Soft Edits (CCORP): 4 or fewer prior Cardiac Operations Requiring

Cardiopulmonary Bypass expected.

Source code to detect odd values:

Where PrCBNum > 4.

16. Field Name: Prior Card Op No Bypass-#

Short Name: PrCNNum

Soft Edits (CCORP): 4 or fewer prior Cardiac Operations Without Cardiopulmonary

Bypass expected.

Source code to detect odd values:

Where PrCNNum > 4

17. Field Name: Hemo Data-EF

Short Name: HDEF

Soft Edits (CCORP): Ejection Fraction outside expected 10 to 90 percent range.

Source code to detect odd values:

Where (HDEF > 90 or HDEF < 10).

18. Field Name: Hemo Data-EF Method

Short Name: HDEFMeth

Valid Values: LV Gram; Radionuclide; Estimate; ECHO

Data Type/Format: Text

Field Length: 12

Soft Edits (CCORP): No Ejection Fraction Given, but Method of Measurement

Listed

Source code to detect odd values: Where ef = 'Missing' or ef = '0' and (ef_type = 'LV Gram' or ef_type = 'Radionuclide' or ef_type = 'Estimate' or ef_type = 'ECHO') **Definition**: Method of obtaining ejection fraction measurement information:

• LV Gram: Left Ventriculogram.

Radionuclide: MUGA Scan.

• Estimate: From other calculations, based upon available clinical data.

ECHO: Echocardiogram.

19. Field Name: Num Dis Vessels

Short Name: NumDisV

Soft Edits (CCORP): Number of Diseased Coronary Vessels must be > 2 if Left

Main Disease is > 50%

Source code to detect odd values:

Where LMainDis is > 50 and (NumDisV = 0 or NumDisV = 1)

20. Field Name: Conversion to CPB

Short Name: ConvCPB Valid Values: Yes; No

Data Type/Format: Text; Yes/No

Field Lenath: 3

Soft Edits (CCORP): Conversion to CPB cannot be 'Yes' if CPB Used is 'No' **Source code to detect odd values**: Where conversion = 'Yes' and cpbused = 'No' **Definition**: The patient needed to be placed on cardiopulmonary bypass (CPB) after

the off-pump procedure was attempted.

3) CCORP Field Export Order for Data Submissions

Field Short Names for data columns appear bolded in parenthesis and should appear on the first line of the comma-delimited ASCII file.

- 1) Medical Record Number (MedRecN)
- 2) Isolated CABG (isocabg)
- 3) Date of Surgery (SurgDt)
- 4) Date of Birth (DOB)
- 5) Patient Age (Age)
- 6) Gender (**Gender**)
- 7) Race (Race)
- 8) Date of Discharge (**DischDt**)
- 9) Discharge Status (MtDCStat)
- 10) Date of Death (MtDate)
- 11a) Surgeon Last Name (SurgLname)
- 11b) Surgeon First Name (SurgFname)
- 11c) Surgeon Middle Initial (SurgMI)
- 12) Responsible Surgeon CA License Number (surglicnum)
- 13) Height (cm) (HeightCm)
- 14) Weight (kg) (WeightKg)
- 15) Diabetes (Diabetes)
- 16) Hypertension (Hypertn)
- 17) Peripheral Vascular Disease (PVD)
- 18) Cerebrovascular Disease (CVD)
- 19) Cerebrovascular Accident (CVA)
- 20) Cerebrovascular Accident Timing (CVAWhen)
- 21) Chronic Lung Disease (ChrLungD)
- 22) Immunosuppressive Treatment (ImmSupp)
- 23) Hepatic Failure (hepafail)
- 24) Dialysis (**Dialysis**)
- 25) Last Creatinine Level Preop (mg/dl) (CreatLst)
- 26) Left Main Disease (% Stenosis) (Imstenpct)
- 27) Number of Diseased Coronary Vessels (NumDisV)
- 28) Mitral Insufficiency (VDInsufM)
- 29) Ejection Fraction (%) (HDEF)
- 30) Ejection Fraction Method (HDEFMeth)
- 31) Myocardial Infarction (MI)
- 32) Myocardial Infarction Timing (MIWhen)
- 33) Arrhythmia (Arrhyth)
- 34) Arrhythmia Type (ArrhyTyp)
- 35) Cardiogenic Shock (CarShock)
- 36) Angina (Angina)
- 37) Angina Type (AngType)
- 38) CCS Classification (ClassCCS)
- 39) Congestive Heart Failure (CHF)
- 40) NYHA Classification (ClassNYH)
- 41) Number of Prior Cardiac Operations Requiring Cardiopulmonary Bypass (**PrCBNum**)
- 42) Number of Prior Cardiac Operations Without Cardiopulmonary Bypass (**PrCNNum**)

- 43) Status of the Procedure (Status)
- 44) Cardiopulmonary Bypass Used (CPBUsed)
- 45) Conversion to Cardiopulmonary Bypass (ConvCPB)
- 46) Primary Incision (**PrimInc**)
- 47) Cardioplegia (Cplegia)
- 48) Internal Mammary Artery(ies) Used as Grafts (IMAArtUs)
- 49) Prior PCI (PCI)
- 50) Interval from Prior PCI to Surgery (**PCIIntv**)
- 51) Facility Identification Number (hospitalid)

4) Value Conversions for STS Data Elements with Parent-Child Relationships

In general, all fields that are coded Yes/No or list numbers of times/events should NOT be left blank, but instead be coded as "No" or "0", respectively. The following are specific data elements where we strongly encourage STS data tool vendors to make the following modifications for data exported to CCORP.

Parent Field	Child Field (STS Short Name)	Conversion
	Dialysis (Dialysis)	Convert child field blank/missing values to "No" when
RF-Renal Failure		parent field is 'No'
Prev CV intervent	Number of Prior Cardiac Operations requiring Cardiopulmonary Bypass (PrCBNum)	Convert child field blank/missing values to "0" (zero) when parent field is 'No'
Prev CV intervent	Number of Prior Cardiac Operations Without Cardiopulmonary Bypass (PrCNNum)	Convert child field blank/missing values to "0" (zero) when parent field is 'No'
Prev CV intervent	Prior PCI (PCI)	Convert child field blank/missing values to "No" when parent field is 'No'

Note: Italics represent parent fields that CCORP does not collect

5. Surgeon Certification of Data

The CCORP regulations require that each surgeon identified as the "responsible surgeon" (see data element definition) in a semiannual hospital report certify to the accuracy of the reported data for his or her CABG surgeries. To certify to their data, the surgeons must complete and sign a CCORP Surgeon Certification Form. The regulations require that all Surgeon Certification Forms be provided to CCORP at the same time as the data submission by the hospital.

The Proposed Surgeon Certification Form occurs on the next page.

CALIFORNIA CABG OUTCOMES REPORTING PROGRAM Surgeon Certification Form

OSH-CCORP 415 (New 10/02)

Healthcare Quality and Analysis Division 818 K Street, Room 200 Sacramento, California 95814 (916) 322-9700 FAX (916) 322-9718

(First) (Middle Initial) (Last)			
California Physician License Number:			
Hospital name:			
Facility Identification Number:			
Report period: From: (Month) (Day) (Year) To: (Month) (Day) (Year)			
Total records:			
Statement of Certification			
Sidlement of Certification			
I,, affirm that the cases assigned to me in this			
(Name of Surgeon) California CABG Outcomes Reporting Program report are accurate, and that I have reviewed these data for accuracy and completeness. I also understand that these data, after any corrections or revisions required by the Office of Statewide Health Planning and Development, will be used to compute my risk-adjusted mortality rate for coronary artery bypass graft surgery, and that the Office of Statewide Health Planning and Development will assign data elements with invalid or missing values the lowest risk value as observed in the most current risk-adjustment model for predicting mortality.			
Name:			
Signature: Dated:			
Address:			
Telephone:			
E-mail:			